

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/8/2,238C
Source: 1FW/6
Date Processed by STIC: 1/17/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

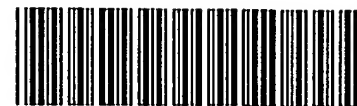
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/8/2,238C</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u> </u> Wrapped Nucleics <u> </u> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u>✓</u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u> </u> Misaligned Amino <u> </u> Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 <u>✓</u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text .	
5 <u> </u> Variable Length	Sequence(s) <u> </u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u> </u> PatentIn 2.0 <u> </u> "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u> </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u> </u> Skipped Sequences (OLD RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u> </u> Skipped Sequences (NEW RULES)	Sequence(s) <u> </u> missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u> </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa , and which residue n or Xaa represents.	
10 <u> </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <u> </u> Use of <220>	Sequence(s) <u> </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <u> </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u> </u> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



IFW16

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:18

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

3 <110> APPLICANT: Wary, Kishore, K.
 4 Humtsoe, Joseph O.
 6 <120> TITLE OF INVENTION: Uses of Vascular Endothelial Growth Factor
 7 and Type I Collagen Inducible Protein (VCIP)
 9 <130> FILE REFERENCE: D6563
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/812,238C
 12 <141> CURRENT FILING DATE: 2004-03-29
 14 <150> PRIOR APPLICATION NUMBER: US 60/458,164
 15 <151> PRIOR FILING DATE: 2003-03-27
 17 <160> NUMBER OF SEQ ID NOS: 42
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 15
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Unknown
 25 <220> FEATURE:
 26 <221> NAME/KEY: CHAIN
 27 <223> OTHER INFORMATION: peptide used to raise anti-VCIP-cyto-C16
 28 antibody
 30 <400> SEQUENCE: 1
 31 Leu Ser Pro Val Asp Ile Ile Asp Arg Asn Asn His His Asn Met
 32 5 10 15
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 20
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Unknown
 40 <220> FEATURE:
 41 <221> NAME/KEY: CHAIN
 42 <223> OTHER INFORMATION: peptide used to raise anti-VCIP-RGD antibody
 44 <400> SEQUENCE: 2
 45 Glu Gly Tyr Ile Gln Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys
 46 5 10 15
 47 Val Gln Glu Ala Arg
 48 20
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 33
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <221> NAME/KEY: primer_bind
 58 <223> OTHER INFORMATION: forward primer for VCIP
 60 <400> SEQUENCE: 3
 61 ggaggatccc tcgcgccgca gccagcgcca tgc 33
 64 <210> SEQ ID NO: 4

*see items 2 and 4
 on Enr Summary
 sheet*
**Does Not Comply
 Corrected Diskette Needed**
pp 2, 6-8

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:18

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

65 <211> LENGTH: 25
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <221> NAME/KEY: primer_bind
71 <223> OTHER INFORMATION: reverse primer for VCIP
73 <400> SEQUENCE: 4
74 gtggcaccta catcatgttg tgggtg 25
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 22
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <221> NAME/KEY: primer_bind
84 <223> OTHER INFORMATION: forward primer for human uPAR
86 <400> SEQUENCE: 5
87 cttcctgaaa tgcgtcaaca cc 22
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 22
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <221> NAME/KEY: primer_bind
97 <223> OTHER INFORMATION: reverse primer for human uPAR
99 <400> SEQUENCE: 6
100 tcatagctgg gaaaactgag gc 22
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 22
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <221> NAME/KEY: primer_bind
110 <223> OTHER INFORMATION: forward primer for ?-actin
112 <400> SEQUENCE: 7
113 ggctgtgcta tccctgtacg cc 22
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 22
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <221> NAME/KEY: primer_bind
123 <223> OTHER INFORMATION: reverse primer for ?-actin
125 <400> SEQUENCE: 8
126 gggcagtgat ctccttctgc at 22
129 <210> SEQ ID NO: 9
130 <211> LENGTH: 23
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:

see p.6 for error
explanation

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:18

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

```

135 <221> NAME/KEY: primer_bind
136 <223> OTHER INFORMATION: forward primer for GAPDH
138 <400> SEQUENCE: 9
139 ggtctcctct gacttcaaca gcg      23
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 24
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <221> NAME/KEY: primer_bind
149 <223> OTHER INFORMATION: reverse primer for GAPDH
151 <400> SEQUENCE: 10
152 ggtactttat tgatgggtaca tgac    24
155 <210> SEQ ID NO: 11
156 <211> LENGTH: 6
157 <212> TYPE: PRT
158 <213> ORGANISM: Unknown
160 <220> FEATURE:
161 <221> NAME/KEY: CHAIN
162 <223> OTHER INFORMATION: a peptide containing RGD sequence
164 <400> SEQUENCE: 11
165 Gly Arg Gly Asp Ser Pro
166      5
169 <210> SEQ ID NO: 12
170 <211> LENGTH: 9
171 <212> TYPE: PRT
172 <213> ORGANISM: Unknown
174 <220> FEATURE:
175 <221> NAME/KEY: CHAIN
176 <223> OTHER INFORMATION: HA-tag
178 <400> SEQUENCE: 12
179 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
180      5
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 311
185 <212> TYPE: PRT
186 <213> ORGANISM: Unknown
188 <220> FEATURE:
189 <221> NAME/KEY: CHAIN
190 <223> OTHER INFORMATION: human VCIP
192 <400> SEQUENCE: 13
193 Met Gln Asn Tyr Lys Tyr Asp Lys Ala Ile Val Pro Glu Ser Lys
194      5                      10                      15
195 Asn Gly Gly Ser Pro Ala Leu Asn Asn Asn Pro Arg Arg Ser Gly
196      20                      25                      30
197 Ser Lys Arg Val Leu Leu Ile Cys Leu Asp Leu Phe Cys Leu Phe
198      35                      40                      45
199 Met Ala Gly Leu Pro Phe Leu Ile Ile Glu Thr Ser Thr Ile Lys
200      50                      55                      60

```

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:18

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

```

201 Pro Tyr His Arg Gly Phe Tyr Cys Asn Asp Glu Ser Ile Lys Tyr
202          65          70          75
203 Pro Leu Lys Thr Gly Glu Thr Ile Asn Asp Ala Val Leu Cys Ala
204          80          85          90
205 Val Gly Ile Val Ile Ala Ile Leu Ala Ile Ile Thr Gly Glu Phe
206          95         100         105
207 Tyr Arg Ile Tyr Tyr Leu Lys Lys Ser Arg Ser Thr Ile Gln Asn
208         110         115         120
209 Pro Tyr Val Ala Ala Leu Tyr Lys Gln Val Gly Cys Phe Leu Phe
210         125         130         135
211 Gly Cys Ala Ile Ser Gln Ser Phe Thr Asp Ile Ala Lys Val Ser
212         140         145         150
213 Ile Gly Arg Leu Arg Pro His Phe Leu Ser Val Cys Asn Pro Asp
214         155         160         165
215 Phe Ser Gln Ile Asn Cys Ser Glu Gly Tyr Ile Gln Asn Tyr Arg
216         170         175         180
217 Cys Arg Gly Asp Asp Ser Lys Val Gln Glu Ala Arg Lys Ser Phe
218         185         190         195
219 Phe Ser Gly His Ala Ser Phe Ser Met Tyr Thr Met Leu Tyr Leu
220         200         205         210
221 Val Leu Tyr Leu Gln Ala Arg Phe Thr Trp Arg Gly Ala Arg Leu
222         215         220         225
223 Leu Arg Pro Leu Leu Gln Phe Thr Leu Ile Met Met Ala Phe Tyr
224         230         235         240
225 Thr Gly Leu Ser Arg Val Ser Asp His Lys His His Pro Ser Asp
226         245         250         255
227 Val Leu Ala Gly Phe Ala Gln Gly Ala Leu Val Ala Cys Cys Ile
228         260         265         270
229 Val Phe Phe Val Ser Asp Leu Phe Lys Thr Lys Thr Thr Leu Ser
230         275         280         285
231 Leu Pro Ala Pro Ala Ile Arg Lys Glu Ile Leu Ser Pro Val Asp
232         290         295         300
233 Ile Ile Asp Arg Asn Asn His His Asn Met Met
234         305         310

```

237 <210> SEQ ID NO: 14

238 <211> LENGTH: 18

239 <212> TYPE: PRT

240 <213> ORGANISM: Unknown

242 <220> FEATURE:

243 <221> NAME/KEY: CHAIN

244 <223> OTHER INFORMATION: lipid phosphatase domain of human VCIP

246 <400> SEQUENCE: 14

247 Asp Ile Ala Lys Val Ser Ile Gly Arg Leu Arg Pro His Phe Leu

248 5 10 15

249 Ser Val Cys

252 <210> SEQ ID NO: 15

253 <211> LENGTH: 18

254 <212> TYPE: PRT

255 <213> ORGANISM: Unknown

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:18

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

```

257 <220> FEATURE:
258 <221> NAME/KEY: CHAIN
259 <223> OTHER INFORMATION: a rat peptide containing lipid
260     phosphatase domain
262 <400> SEQUENCE: 15
263 Asp Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Leu
264           5               10               15
265 Ala Val Cys
268 <210> SEQ ID NO: 16
269 <211> LENGTH: 18
270 <212> TYPE: PRT
271 <213> ORGANISM: Unknown
273 <220> FEATURE:
274 <221> NAME/KEY: CHAIN
275 <223> OTHER INFORMATION: a mouse peptide containing lipid
276     phosphatase domain
278 <400> SEQUENCE: 16
279 Asp Ile Ala Lys Tyr Thr Ile Gly Ser Leu Arg Pro His Phe Leu
280           5               10               15
281 Ala Ile Cys
284 <210> SEQ ID NO: 17
285 <211> LENGTH: 18
286 <212> TYPE: PRT
287 <213> ORGANISM: Unknown
289 <220> FEATURE:
290 <221> NAME/KEY: CHAIN
291 <223> OTHER INFORMATION: a human peptide containing lipid
292     phosphatase domain
294 <400> SEQUENCE: 17
295 Asp Leu Ala Lys Tyr Met Ile Gly Arg Leu Arg Pro Asn Phe Leu
296           5               10               15
297 Ala Val Cys
300 <210> SEQ ID NO: 18
301 <211> LENGTH: 18
302 <212> TYPE: PRT
303 <213> ORGANISM: Unknown
305 <220> FEATURE:
306 <221> NAME/KEY: CHAIN
307 <223> OTHER INFORMATION: a Drosophila peptide containing lipid
308     phosphatase domain
310 <400> SEQUENCE: 18
311 Asn Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Tyr
312           5               10               15
313 Thr Leu Cys
316 <210> SEQ ID NO: 19
317 <211> LENGTH: 18
318 <212> TYPE: PRT
319 <213> ORGANISM: C. elegans
321 <220> FEATURE:

```

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<210> 7
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<221> primer_bind
<223> forward primer for β -actin

<400> 7
ggctgtgcta tccctgtacg cc 22



This type of
error appears
in subsequent sequences.

do not use scientific
symbols

or foreign accent
marks. They
cannot
be processed.

Please spell the
word.

1/8/12, 238C 7

<210> 40
<211> 12
<212> PRT
<213> Artificial Sequence

<220> ? This is a peptide
<221> UNSURE
<223> anti-sense primer for mouse GAPDH sequence.

<400> 40
Ser Arg Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Asp
5 10

→ This is not a sufficient explanation
for Xaa's. See
p. 8 for error
explanation.

<2217 line is not used to
explain N's or Xaa's

VARIABLE LOCATION SUMMARY

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:19

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:38; Xaa Pos. 2,3,4,5,6,7

Seq#:40; Xaa Pos. 3,4,5,6,7,9,10,11

VERIFICATION SUMMARY

DATE: 01/17/2006

PATENT APPLICATION: US/10/812,238C

TIME: 15:30:19

Input Set : N:\SMITH\PTO.TAS16.txt

Output Set: N:\CRF4\01172006\J812238C.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:613 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:40
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0